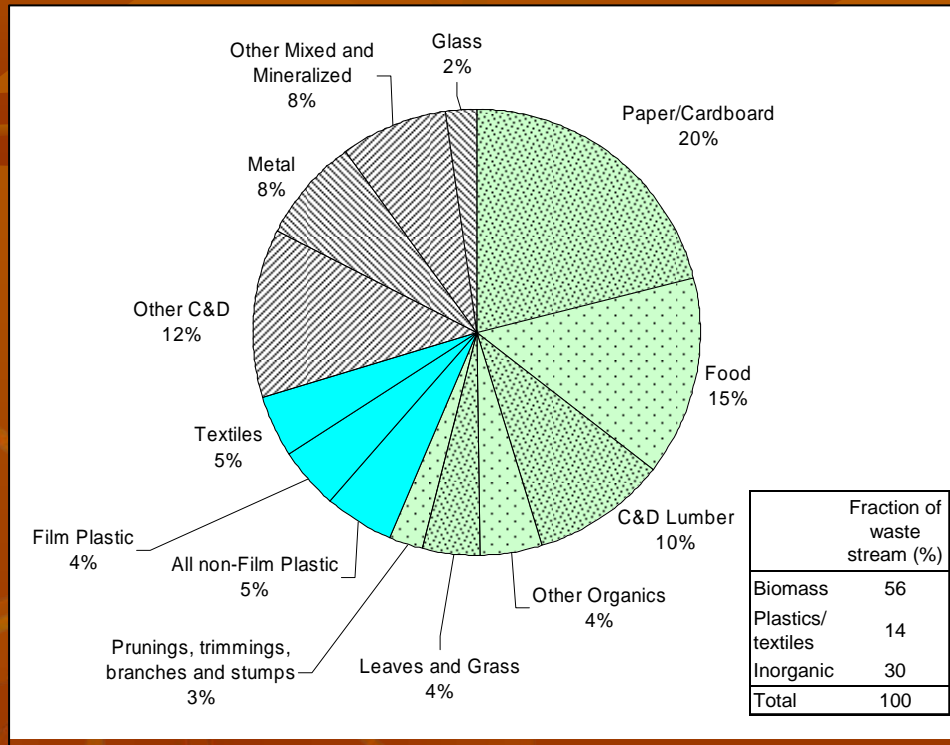


# Smooth Sailing Ahead

Partnering With Sustainability and  
Waste Compliance & Mitigation

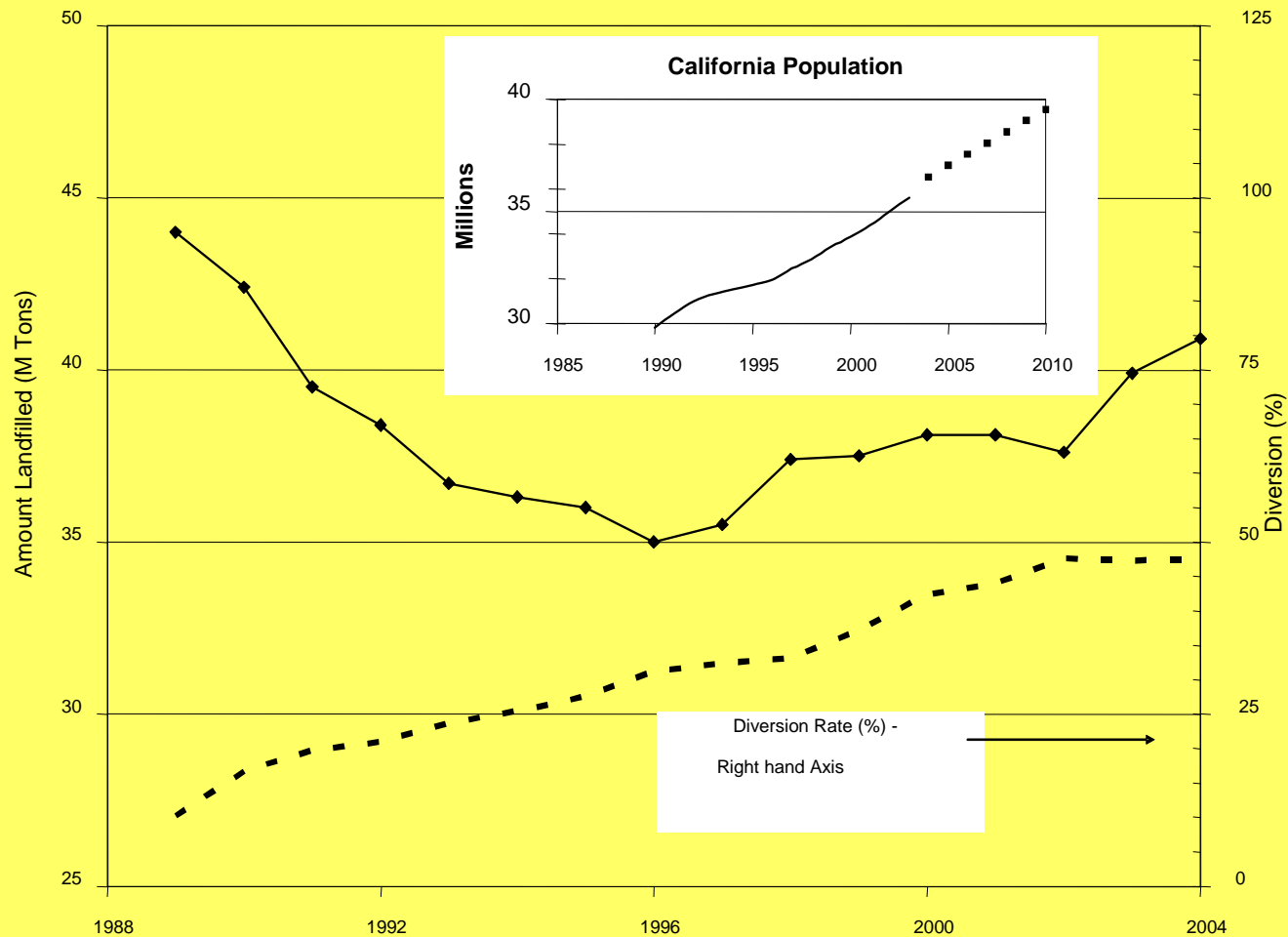
Fernando Berton, CIWMB

# Waste Characterization in California



- 42 million tons disposed in 2005
- 23 million tons biological in origin
- 5.7 tons plastic and textiles

# Total Disposal vs. Statewide Diversion



# Strategic Directives 6.0

- Strategic Directive 6:
  - *Assist in the development of viable, sustainable markets to divert materials*
  - *Encourage source reduction and recycling*
- Strategic Directive 6.5
  - *Ensure sufficient recyclables will be available for increased diversion and regional markets,*
  - *Adequate collection and processing facilities need to be in place*
  - *Will necessitate development of new or expanded facilities.*

# Strategic Directive 8.0

- Strategic Directive 8:
  - *Manage and mitigate impacts of solid waste and tires on public health and safety and the environment*
  - *Integrated and consistent permitting, inspection, and enforcement efforts*
- Strategic Directive 8.5
  - *Addresses need to assist local decision-makers with infrastructure issues*
  - *Long-term planning is needed to ensure that facilities are there when they are needed*



# Strategic Directive 9.0

- Strategic Directive 9:
  - *Encourage innovations and technologies that provide for the most efficient and effective management and reuse of materials*
- Strategic Directive 9.2
  - *Encourage development of bioenergy and biofuels*
  - *Executive Order S-06-06 called for increase in biofuel production and electricity from biomass*
  - *Materials in waste stream to produce alternative energy and bio-fuels, thereby increasing diversion and developing new markets*

# Infrastructure Activities

- Biofuels and Bioenergy Summit – March and July 07
  - Stakeholders reinforced need to clarify/consolidate permitting processes
  - Continue research activities
  - Educate public, state agencies, and local governments

# Organics Summit – October '07

- Held October 10<sup>th</sup>, 2007
- Exchange of ideas:
  - *Develop common understanding for future of compostables and cellulosic materials*
  - *Facilitated breakout sessions*
    - *Infrastructure Expansion*
    - *Regulatory & Siting Issues*
    - *Markets & Procurement*
    - *CIWMB Policy & Legislative Issues*
  - December Agenda Item



# Infrastructure Baseline Inventory

- \$800,000 contract
- Directly implements SD 6.5
- comprehensive inventory
  - Solid waste handling, diversion, and market infrastructure:
    - Primary processors (transfer stations, material recovery facilities, compost facilities, etc.)
    - Secondary processors
    - End users (recycling manufacturers)
    - Emerging technology facilities
    - Disposal facilities

# Infrastructure Baseline Inventory

- Expected Outcomes:
  - Infrastructure baseline
    - Current throughput & existing additional capacity for individual facilities and on a regional basis
  - Model components that will allow for
    - evaluation of facilities needed to meet future local and regional watershed diversion needs under different scenarios of population and economic growth
  - Framework for databases, websites, tools for easier updates
  - Scope of Work to Board – December '07

# Climate Change – Early Action Measures

Climate Action Mitigation Strategies	Targeted GHG Reduction Goals (Million Metric Tons CO <sub>2</sub> Equivalent)	
	2010	2020
Achieve 50% Statewide Recycling Goal	3	3
Landfill Methane Capture	2	3
Zero Waste—High Recycling		3

# Legislative Activities

- Senate Bill 1020
  - 60% by 2012
  - 75% by 2020
- Two-year bill
- Increased goals may require increased infrastructure

# Collection vs. Recycling

- Increased Diversion
  - May require more facilities
  - Producer responsibility approach may be needed
- Does collection ensure recycling?
- Is recycling occurring in California?
  - Or is it just collection
- Does shipping recyclables out-of-state for recycling reduce carbon footprint?
- Should we increase recycling capacity in-state?